

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
Modified: 3/9/2015 2:24:25 PM

**Electrophoresis File Run Summary**

Instrument Information:

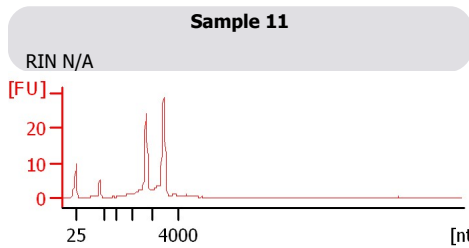
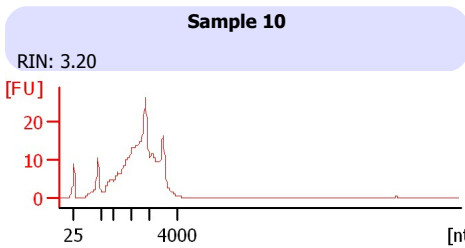
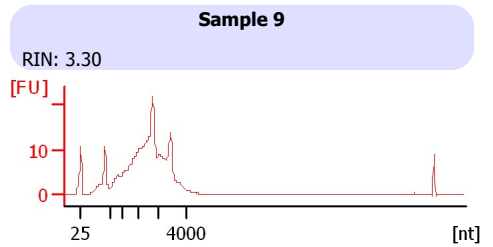
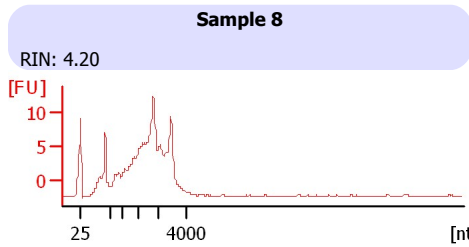
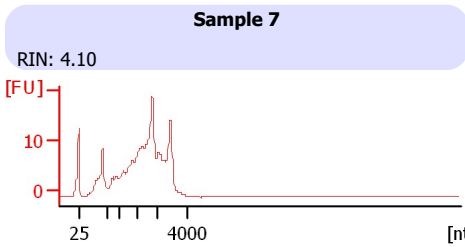
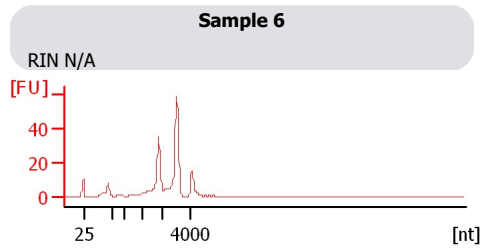
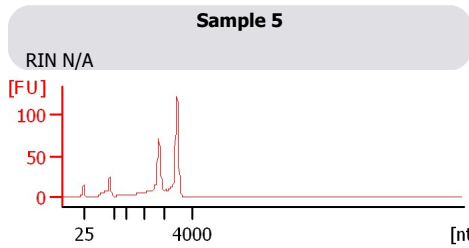
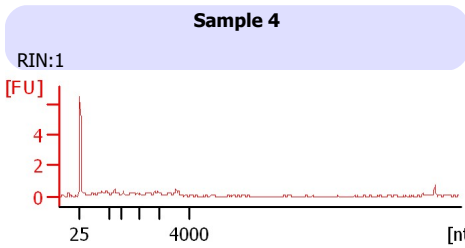
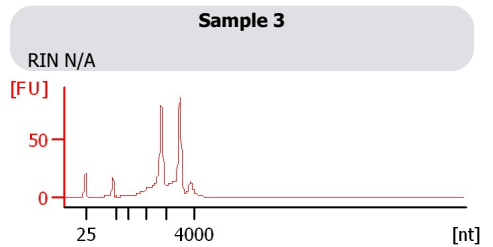
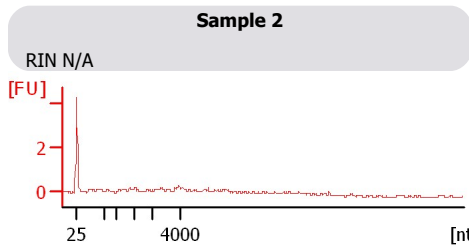
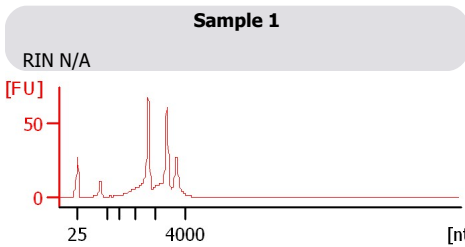
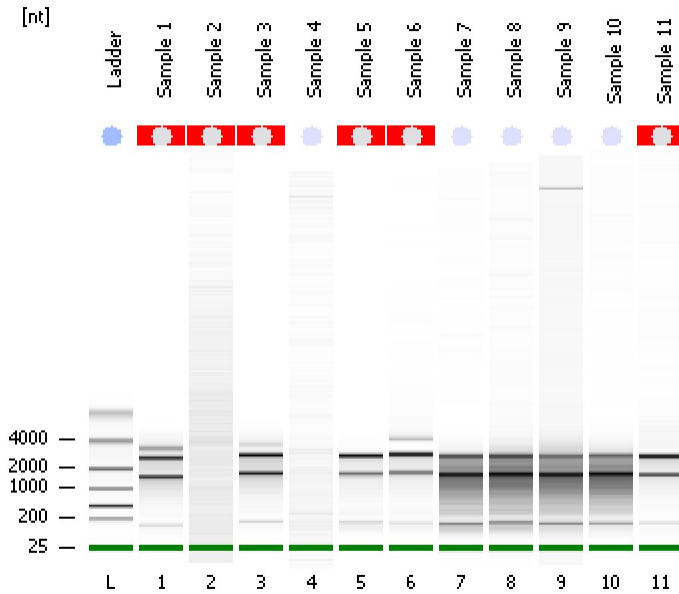
Instrument Name: DE13701086      Firmware: C.01.069  
Serial#: DE13701086      Type: G2938B

Assay Information:

Assay Origin Path: C:\Program Files\Agilent\2100 bioanalyzer\2100 expert\assays\RNA\Eukaryote Total RNA Pico Series II.xsy  
Assay Class: Eukaryote Total RNA Pico  
Version: 2.6  
Assay Comments: Total RNA Analysis pg sensitivity (Eukaryote)  
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Chip Information:

Chip Lot #:      Reagent Kit Lot #:      Chip Comments:



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**Electrophoresis File Run Summary (Chip Summary)**

Sample Name	Sample Comment	Status	Result Label	Result Color
Sample 1		✓	RIN N/A	
Sample 2		✓	RIN N/A	
Sample 3		✓	RIN N/A	
Sample 4		✓	RIN:1	
Sample 5		✓	RIN N/A	
Sample 6		✓	RIN N/A	
Sample 7		✓	RIN: 4.10	
Sample 8		✓	RIN: 4.20	
Sample 9		✓	RIN: 3.30	
Sample 10		✓	RIN: 3.20	
Sample 11		✓	RIN N/A	
Ladder		✓	All Other Samples	

**Chip Lot #**

**Reagent Kit Lot #**

**Chip Comments :**

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**Electrophoresis Assay Details**

**General Analysis Settings**

Number of Available Sample and Ladder Wells (Max.) : 12  
Minimum Visible Range [s] : 17  
Maximum Visible Range [s] : 70  
Start Analysis Time Range [s] : 18  
End Analysis Time Range [s] : 69  
Ladder Concentration [pg/μl] : 1000  
Lower Marker Concentration [pg/μl] : 0  
Upper Marker Concentration [pg/μl] : 0  
Used Lower Marker for Quantitation  
Standard Curve Fit is Logarithmic  
Show Data Aligned to Lower Marker

**Integrator Settings**

Integration Start Time [s] : 18  
Integration End Time [s] : 69  
Slope Threshold : 0.6  
Height Threshold [FU] : 0.5  
Area Threshold : 0.2  
Width Threshold [s] : 0.3  
Baseline Plateau [s] : 6

**Filter Settings**

Filter Width [s] : 0.5  
Polynomial Order : 4

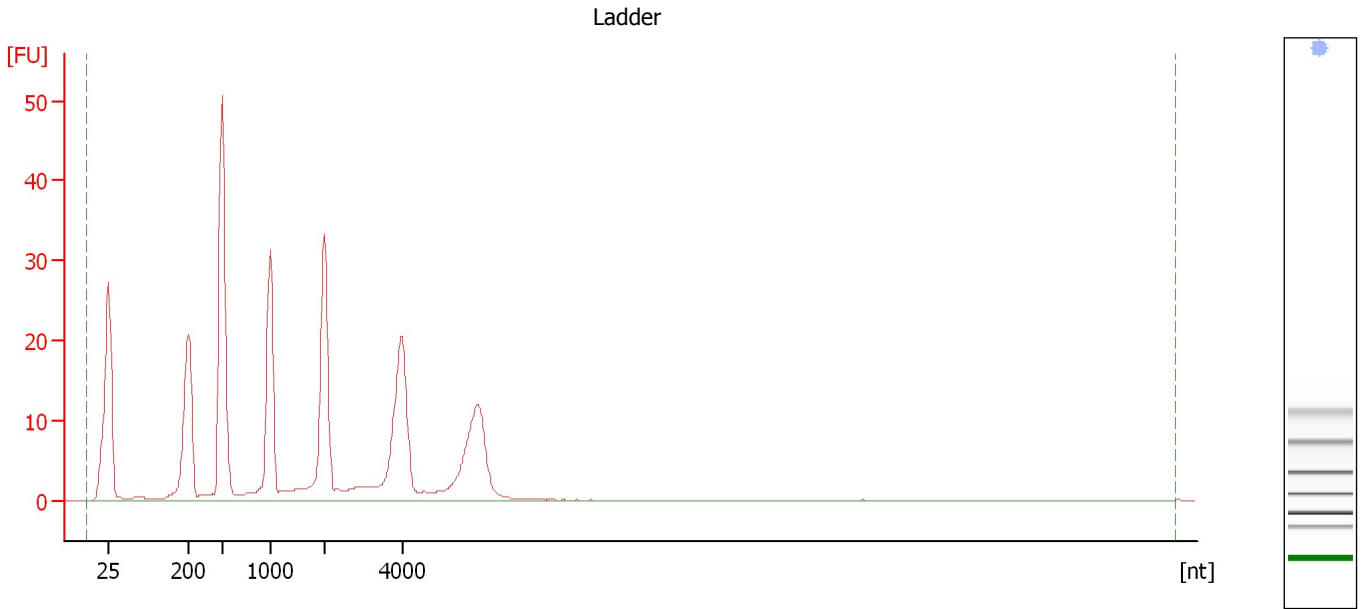
**Ladder**

Ladder Peak	Size
1	25
2	200
3	500
4	1000
5	2000
6	4000

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**Electropherogram Summary**



**Overall Results for Ladder**

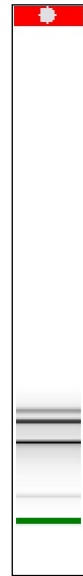
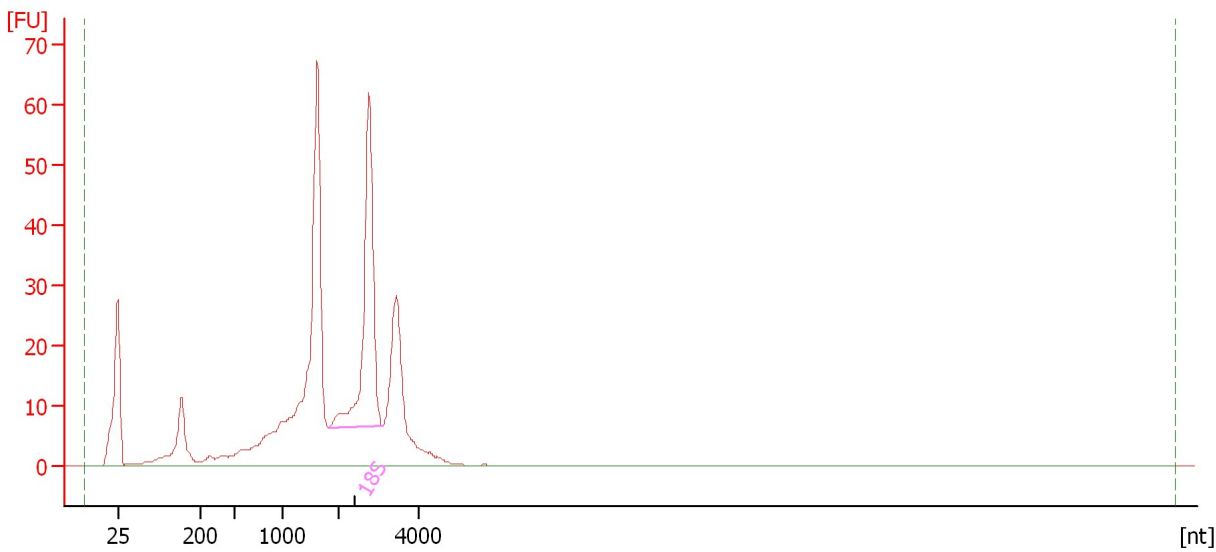
RNA Area:	316.1	Result Flagging Color:	<span style="background-color: #ADD8E6; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
RNA Concentration:	1,000 pg/μl	Result Flagging Label:	All Other Samples

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

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**Electropherogram Summary Continued ...**

Sample 1



**Overall Results for sample 1 : Sample 1**

RNA Area:	433.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,371 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 1 : Sample 1**

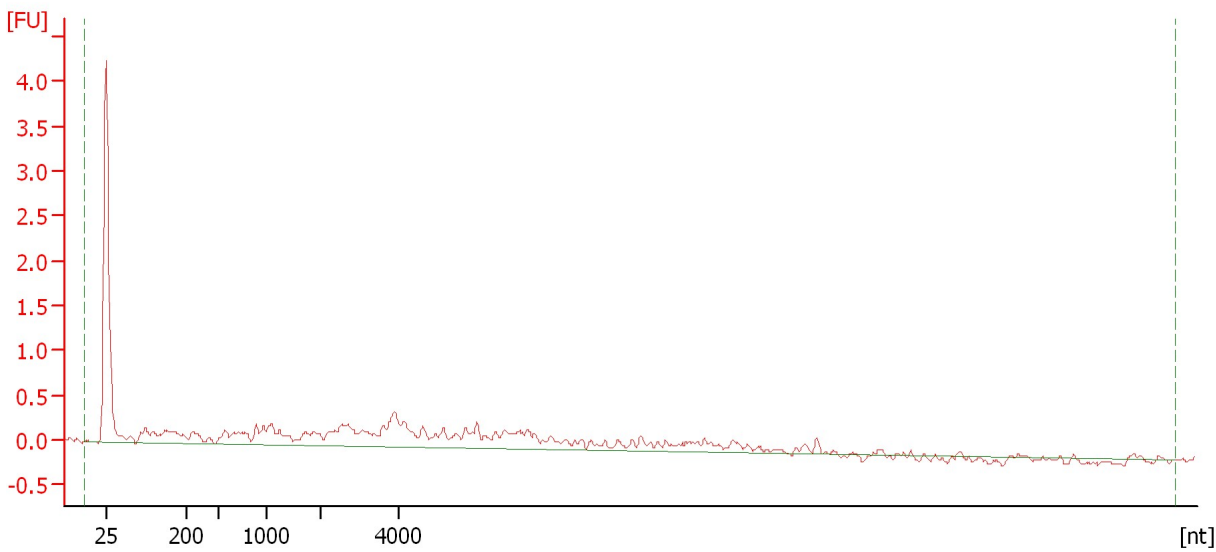
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,813	3,077	92.0	21.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

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**Electropherogram Summary Continued ...**

Sample 2



**Overall Results for sample 2 : Sample 2**

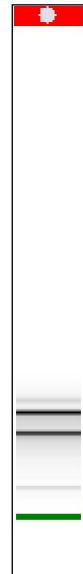
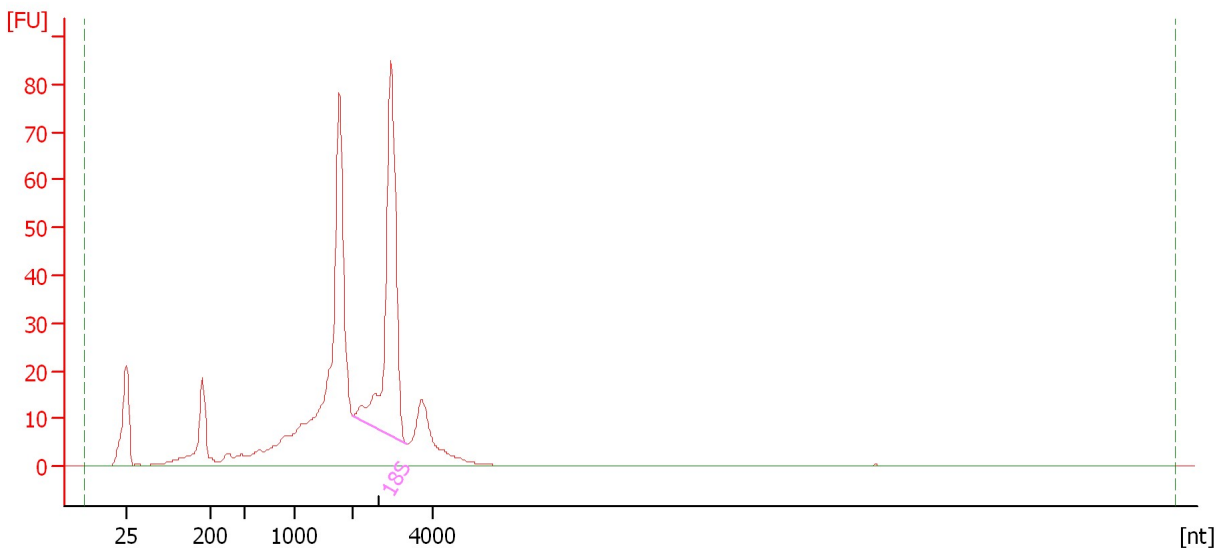
RNA Area:	11.8	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	37 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
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**Electropherogram Summary Continued ...**

Sample 3



**Overall Results for sample 3 : Sample 3**

RNA Area:	528.4	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,671 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 3 : Sample 3**

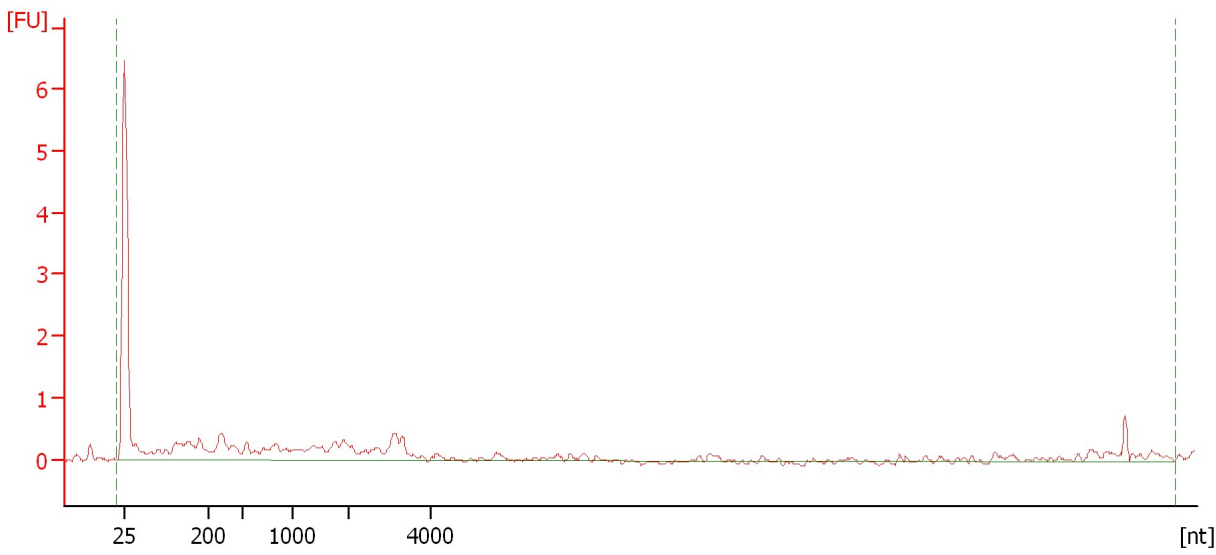
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,026	3,338	134.6	25.5

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
Modified: 3/9/2015 2:24:25 PM

**Electropherogram Summary Continued ...**

Sample 4



**Overall Results for sample 4 : Sample 4**

RNA Area:	11.1	RNA Integrity Number (RIN):	1 (B.02.08)
RNA Concentration:	35 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN:1

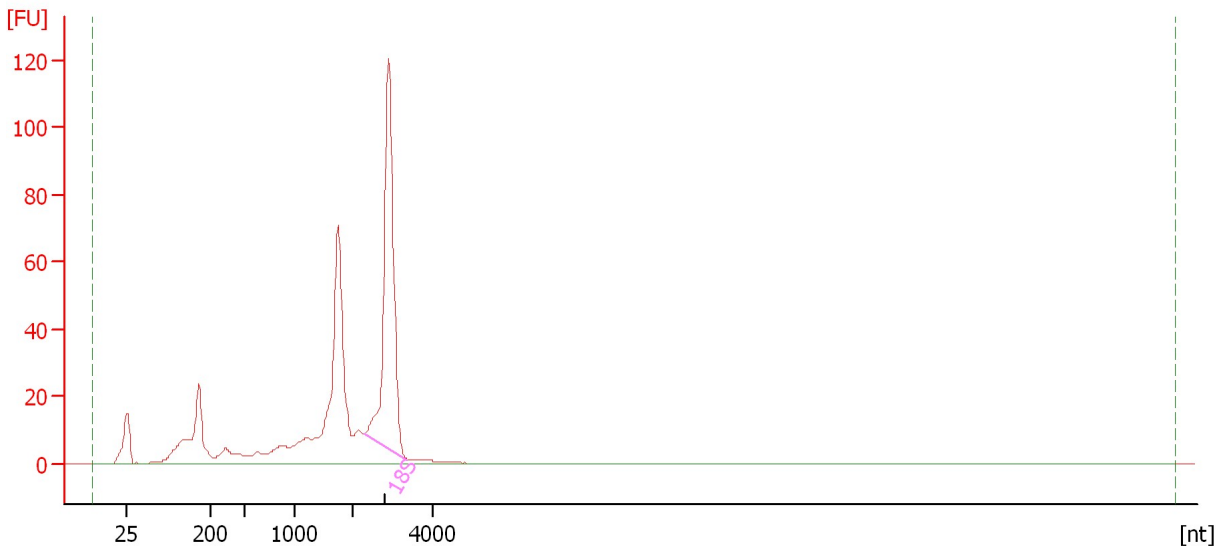


Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
Modified: 3/9/2015 2:24:25 PM

**Electropherogram Summary Continued ...**

Sample 5



**Overall Results for sample 5 : Sample 5**

RNA Area:	542.3	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	1,716 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 5 : Sample 5**

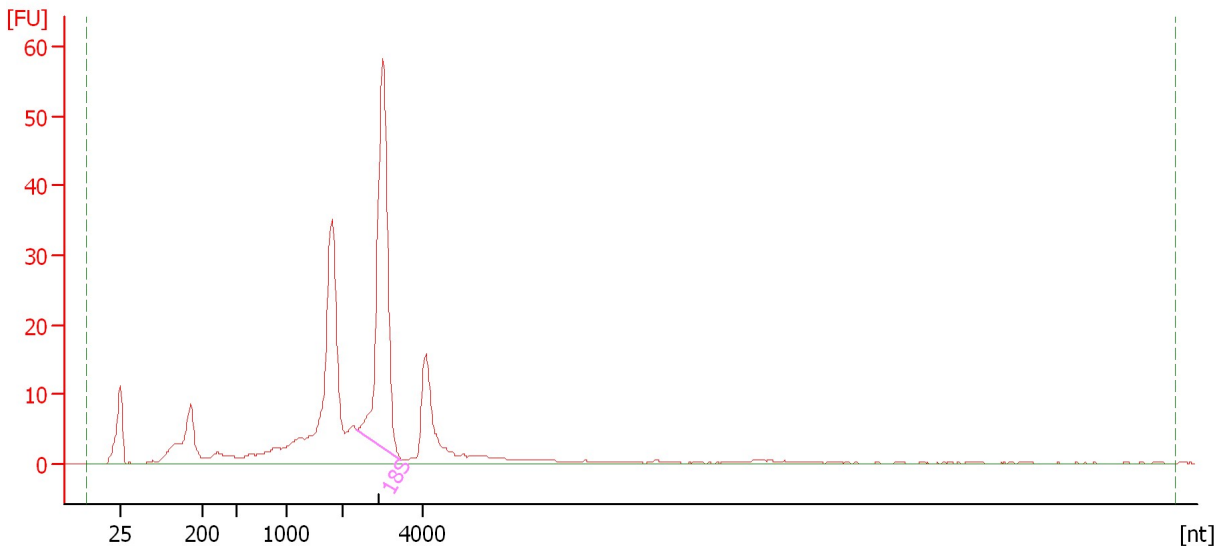
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,315	3,364	186.0	34.3

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
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**Electropherogram Summary Continued ...**

Sample 6



**Overall Results for sample 6 : Sample 6**

RNA Area:	315.0	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	996 pg/μl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

**Fragment table for sample 6 : Sample 6**

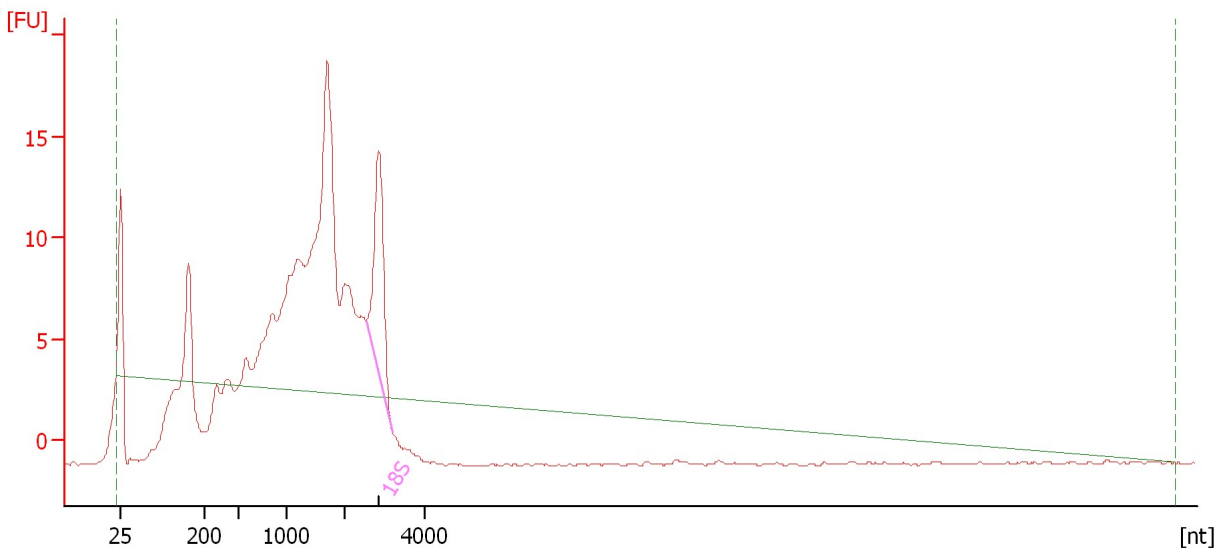
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,377	3,469	97.6	31.0

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
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**Electropherogram Summary Continued ...**

Sample 7



**Overall Results for sample 7 : Sample 7**

RNA Area:	132.8	RNA Integrity Number (RIN):	4.1 (B.02.08)
RNA Concentration:	420 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.10

**Fragment table for sample 7 : Sample 7**

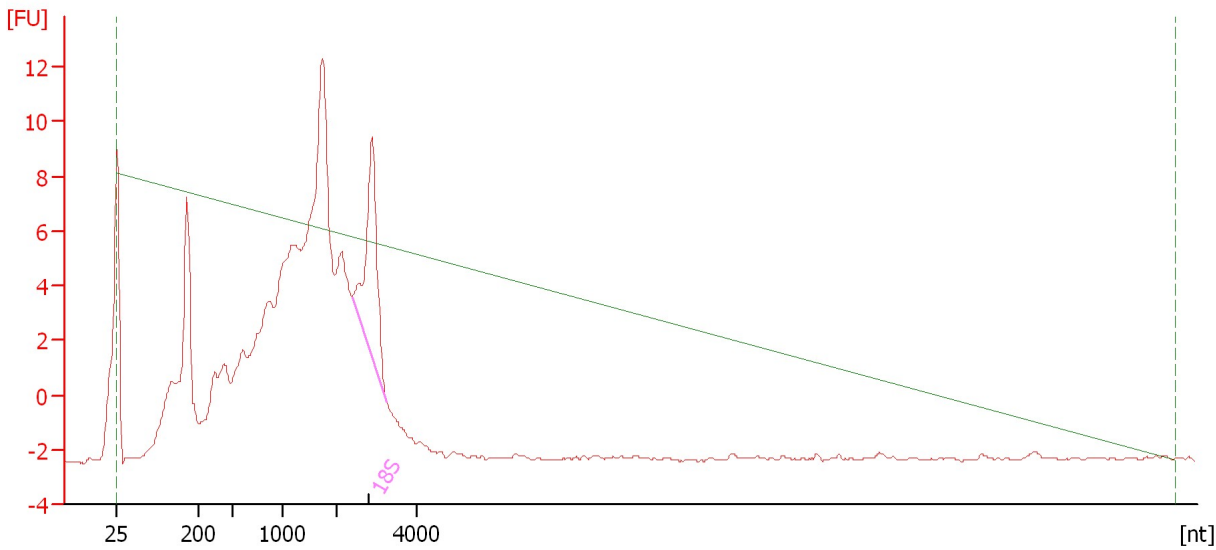
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,548	3,212	17.3	13.0

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
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**Electropherogram Summary Continued ...**

Sample 8



**Overall Results for sample 8 : Sample 8**

RNA Area:	7.3	RNA Integrity Number (RIN):	4.2 (B.02.08)
RNA Concentration:	23 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 4.20

**Fragment table for sample 8 : Sample 8**

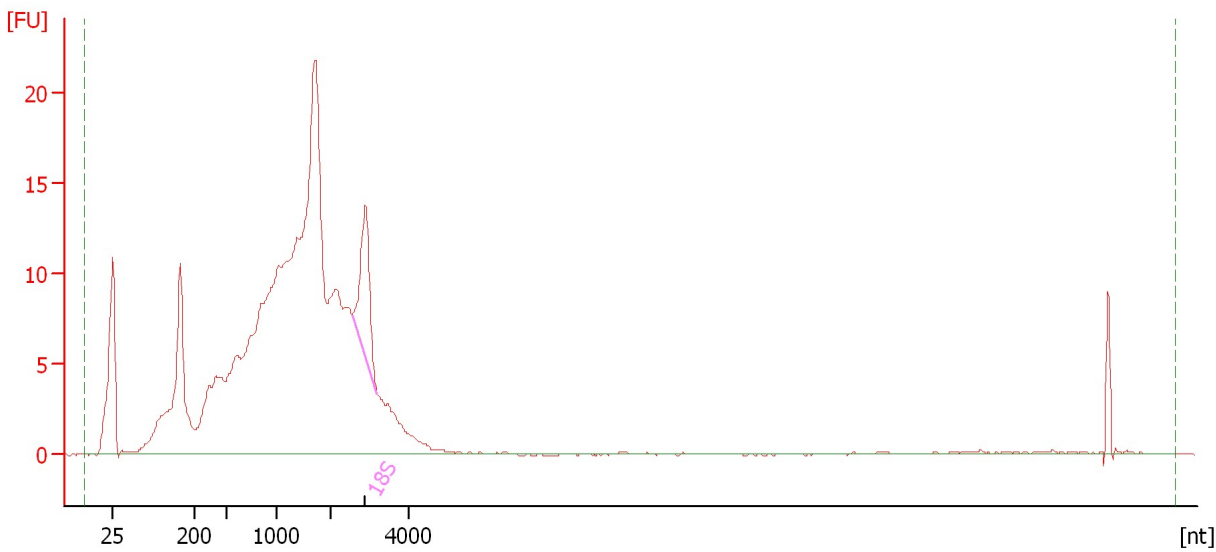
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,369	3,255	14.9	204.4

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
Modified: 3/9/2015 2:24:25 PM

**Electropherogram Summary Continued ...**

Sample 9



**Overall Results for sample 9 : Sample 9**

RNA Area:	307.4	RNA Integrity Number (RIN):	3.3 (B.02.08)
RNA Concentration:	973 µg/µl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.30

**Fragment table for sample 9 : Sample 9**

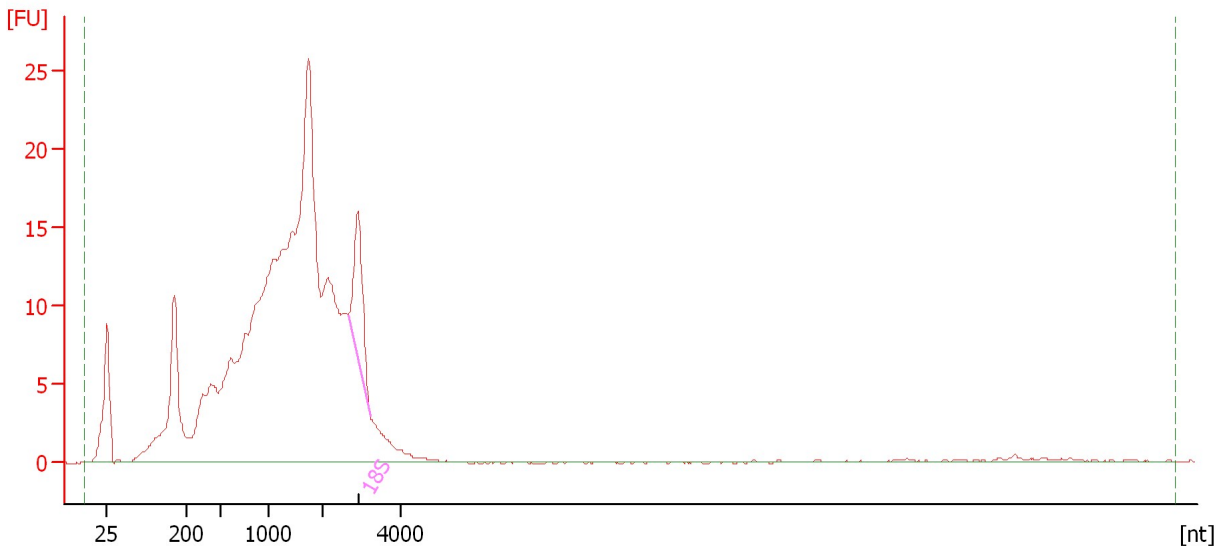
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,539	3,189	12.8	4.2

Assay Class: Eukaryote Total RNA Pico  
Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
Modified: 3/9/2015 2:24:25 PM

**Electropherogram Summary Continued ...**

Sample 10



**Overall Results for sample 10 : Sample 10**

RNA Area:	346.2	RNA Integrity Number (RIN):	3.2 (B.02.08)
RNA Concentration:	1,095 pg/μl	Result Flagging Color:	<span style="background-color: #ccccff; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN: 3.20

**Fragment table for sample 10 : Sample 10**

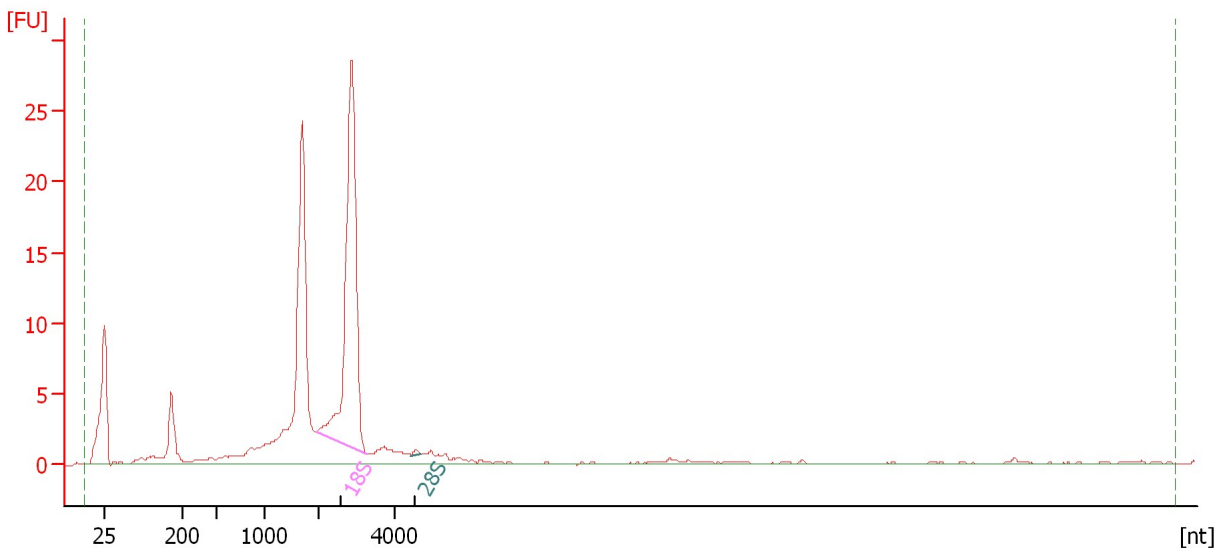
Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	2,646	3,223	14.7	4.3

Assay Class: Eukaryote Total RNA Pico  
 Data Path: C:\...ents and Settings\Bioanalyzer\2015-03-09\2015-03-09\_002.xad

Created: 3/9/2015 2:00:52 PM  
 Modified: 3/9/2015 2:24:25 PM

**Electropherogram Summary Continued ...**

Sample 11



**Overall Results for sample 11 : Sample 11**

RNA Area:	145.1	RNA Integrity Number (RIN):	N/A (B.02.08)
RNA Concentration:	459 µg/µl	Result Flagging Color:	<span style="background-color: #cccccc; border: 1px solid black; display: inline-block; width: 20px; height: 10px;"></span>
rRNA Ratio [28s / 18s]:	0.0	Result Flagging Label:	RIN N/A

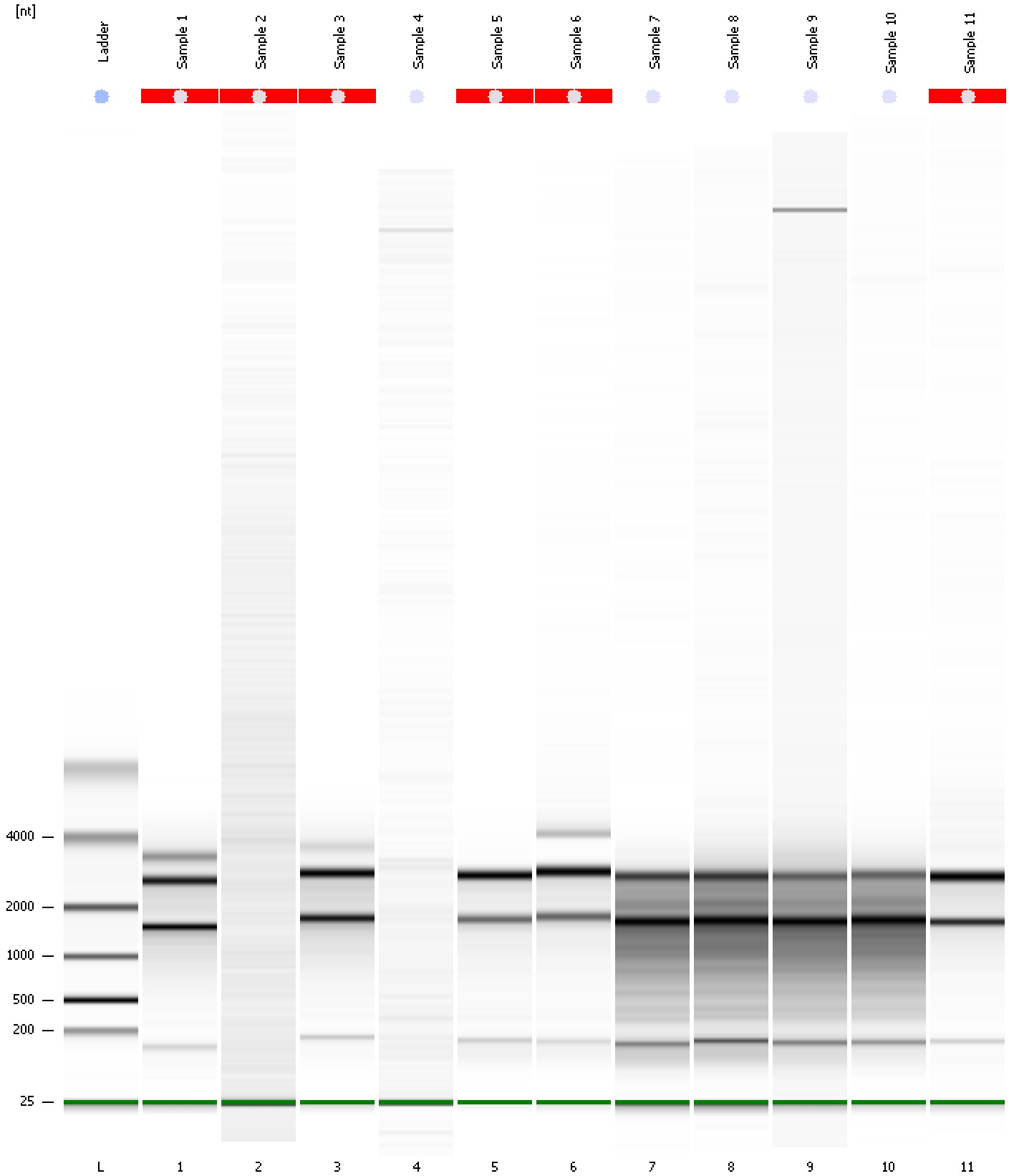
**Fragment table for sample 11 : Sample 11**

Name	Start Size [nt]	End Size [nt]	Area	% of total Area
18S	1,962	3,249	50.6	34.9
28S	4,411	4,688	0.3	0.2

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**Gel Image**





Assay Class: Eukaryote Total RNA Pico  
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Created: 3/9/2015 2:00:52 PM  
 Modified: 3/9/2015 2:24:25 PM

**Run Logbook**

Description	Number	Source	Category	Sub Category	Time	Time Zone	User	Host
Run ended on port 1 (Number of wells acquired: 12)		Instrument	Run		3/9/2015 4:22:48 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Run started on port 1 (File: C:\Documents and Settings\Bioanalyzer\2015-03-09\2015-03-09_002.xad)		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Product Number : G2938B		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Name :		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Vendor : Agilent Technologies		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Serial# : DE13701086		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Firmware : C.01.069		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1
Cartridge : Electrode		Instrument	Run		3/9/2015 4:00:53 PM	(GMT --07:00) Pacific Standard Time	UC Davis	D8XSMGH1